```
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PASSWORD:
TERMINAL (ENTER 1, 2, 3, OR ?):2


* * * * * * * * * *   Welcome to STN International   * * * * * * * * * *

 NEWS  1          Web Page for STN Seminar Schedule - N. America
 NEWS  2  AUG 10  Time limit for inactive STN sessions doubles to 40
                  minutes
 NEWS  3  AUG 18  COMPENDEX indexing changed for the Corporate Source
                  (CS) field
 NEWS  4  AUG 24  ENCOMPLIT/ENCOMPLIT2 reloaded and enhanced
 NEWS  5  AUG 24  CA/CAplus enhanced with legal status information for
                  U.S. patents
 NEWS  6  SEP 09  50 Millionth Unique Chemical Substance Recorded in
                  CAS REGISTRY
 NEWS  7  SEP 11  WPIDS, WPINDEX, and WPIX now include Japanese FTERM
                  thesaurus
 NEWS  8  OCT 21  Derwent World Patents Index Coverage of Indian and
                  Taiwanese Content Expanded
 NEWS  9  OCT 21  Derwent World Patents Index enhanced with human
                  translated claims for Chinese Applications and
                  Utility Models
 NEWS 10  OCT 27  Free display of legal status information in CA/CAplus,
                  USPATFULL, and USPAT2 in the month of November.

 NEWS EXPRESS MAY 26 09 CURRENT WINDOWS VERSION IS V8.4,
              AND CURRENT DISCOVER FILE IS DATED 06 APRIL 2009.

 NEWS HOURS    STN Operating Hours Plus Help Desk Availability
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* * * * * * * * * * * * * * * * STN  Columbus  * * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 17:02:55 ON 08 NOV 2009

=> file reg
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                       ENTRY    SESSION
FULL ESTIMATED COST                                     0.22       0.22
```

FILE 'REGISTRY' ENTERED AT 17:03:10 ON 08 NOV 2009

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 6 NOV 2009 HIGHEST RN 1191512-11-4
DICTIONARY FILE UPDATES: 6 NOV 2009 HIGHEST RN 1191512-11-4

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TSCA INFORMATION NOW CURRENT THROUGH June 26, 2009.

Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

http://www.cas.org/support/stngen/stndoc/properties.html

=> ....Testing the current file.... screen

ENTER SCREEN EXPRESSION OR (END):end

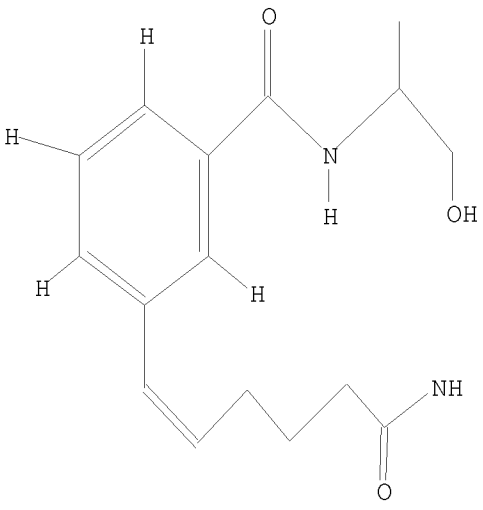
=>
Uploading C:\Program Files\Stnexp\Queries\10590064-1.str

L1 STRUCTURE UPLOADED

=> que L1

L2 QUE L1

=> d l1
L1 HAS NO ANSWERS
L1 STR



Structure attributes must be viewed using STN Express query preparation.

=> s l1
SAMPLE SEARCH INITIATED 17:03:52 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 8 TO ITERATE

100.0% PROCESSED 8 ITERATIONS 0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 8 TO 329
PROJECTED ANSWERS: 0 TO 0

L3 0 SEA SSS SAM L1

=> s l1 sss full
FULL SEARCH INITIATED 17:04:02 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 159 TO ITERATE

100.0% PROCESSED 159 ITERATIONS 4 ANSWERS
SEARCH TIME: 00.00.01

L4 4 SEA SSS FUL L1

=> file caplus
COST IN U.S. DOLLARS SINCE FILE ENTRY TOTAL SESSION
FULL ESTIMATED COST 186.36 186.58

FILE 'CAPLUS' ENTERED AT 17:04:13 ON 08 NOV 2009
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

FILE COVERS 1907 - 8 Nov 2009 VOL 151 ISS 20
FILE LAST UPDATED: 6 Nov 2009 (20091106/ED)
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Aug 2009
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Aug 2009

CAplus now includes complete International Patent Classification (IPC)
reclassification data for the third quarter of 2009.

CAS Information Use Policies apply and are available at:

http://www.cas.org/legal/infopolicy.html

This file contains CAS Registry Numbers for easy and accurate

substance identification.

During November, try the new LSUS format of legal status information in the CA/CAplus family databases for free! Complete details on the number of free displays and other databases participating in this offer appear in NEWS 10.

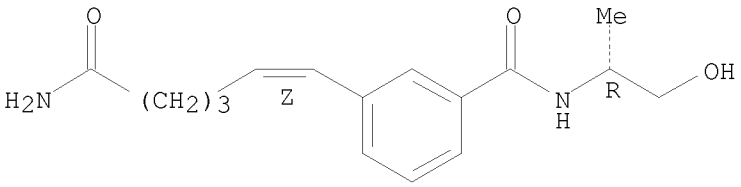
=> s l4
L5 2 L4

=> d l5 ibib ab hitstr tot

L5 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2007:1230515 CAPLUS
DOCUMENT NUMBER: 148:69663
TITLE: Vascular pharmacology of a novel cannabinoid-like compound, 3-(5-dimethylcarbamoyl-pent-1-enyl)-N-(2-hydroxy-1-methyl-ethyl)benzamide (VSN16) in the rat
AUTHOR(S): Hoi, P. M.; Visintin, C.; Okuyama, M.; Gardiner, S. M.; Kaup, S. S.; Bennett, T.; Baker, D.; Selwood, D. L.; Hiley, C. R.
CORPORATE SOURCE: Department of Pharmacology, University of Cambridge, Cambridge, UK
SOURCE: British Journal of Pharmacology (2007), 152(5), 751-764
CODEN: BJPCBM; ISSN: 0007-1188
PUBLISHER: Nature Publishing Group
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 148:69663
AB A putative novel cannabinoid receptor mediates vasorelaxation to anandamide and abnormal-cannabidiol and is blocked by O-1918 and by high concns. of rimonabant. This study investigates VSN16, a novel water-soluble agonist, as a vasorelaxant potentially acting at non-CB1, non-CB2 cannabinoid receptors in the vasculature. VSN16 and some analogs were synthesized and assayed for vasodilator activity in the rat third generation mesenteric artery using wire myog. Also carried out with VSN16 were hemodynamic studies in conscious rats and binding studies to CB1 receptors of rat cerebellum. VSN16 relaxed mesenteric arteries in an endothelium-dependent manner. The vasorelaxation was antagonized by high concns. of the classical cannabinoid antagonists, rimonabant and AM 251, as well as by O-1918, an antagonist at the abnormal-cannabidiol receptor but not at CB1 or CB2 receptors. It did not affect [3H]CP55,940 binding to CB1 receptors in rat cerebellum. The vasorelaxation was not pertussis toxin-sensitive but was reduced by inhibition of nitric oxide synthesis, Ca2+-sensitive K+ channels (KCa) and TRPV1 receptors. In conscious rats VSN16 transiently increased blood pressure and caused a longer-lasting increase in mesenteric vascular conductance. Structure-activity studies on vasorelaxation showed a stringent interaction with the target receptor. VSN16 is an agonist at a novel cannabinoid receptor of the vasculature. It acts on the endothelium to release nitric oxide and activate KCa and TRPV1. As it is water-soluble it might be useful in bringing about peripheral cannabinoid-like effects without accompanying central or severe cardiovascular responses.
IT 960132-68-7P
RL: SPN (Synthetic preparation); PREP (Preparation)
(VSN16R; preparation and vascular pharmacol. of cannabinoid-like compound, 3-(5-dimethylcarbamoyl-pent-1-enyl)-N-(2-hydroxy-1-Me-ethyl)benzamide (VSN16) in the rat)
RN 960132-68-7 CAPLUS
CN Benzamide, 3-[(1Z)-6-amino-6-oxo-1-hexen-1-yl]-N-[(1R)-2-hydroxy-1-

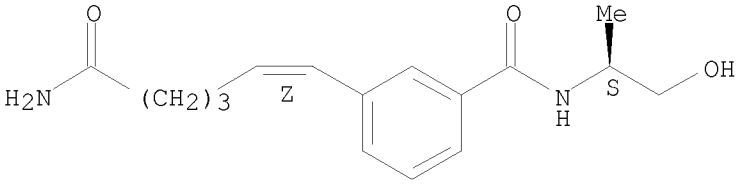
methylethyl]- (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry as shown.



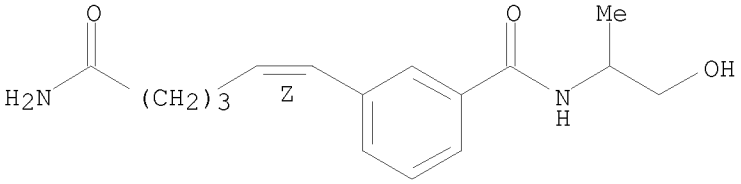
IT 960132-69-8P
RL: SPN (Synthetic preparation); PREP (Preparation)
(VSN16S; preparation and vascular pharmacol. of cannabinoid-like compound, 3-(5-dimethylcarbamoyl-pent-1-enyl)-N-(2-hydroxy-1-Me-ethyl)benzamide (VSN16) in the rat)
RN 960132-69-8 CAPLUS
CN Benzamide, 3-[(1Z)-6-amino-6-oxo-1-hexen-1-yl]-N-[(1S)-2-hydroxy-1-methylethyl]- (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry as shown.



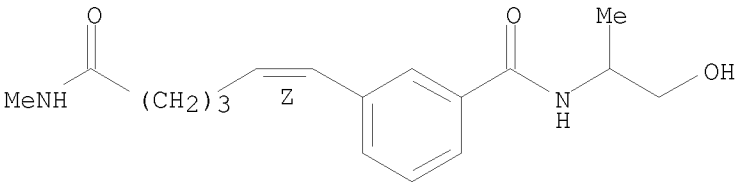
IT 863713-82-0P 863713-84-2P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and vascular pharmacol. of cannabinoid-like compound, 3-(5-dimethylcarbamoyl-pent-1-enyl)-N-(2-hydroxy-1-Me-ethyl)benzamide (VSN16) in the rat)
RN 863713-82-0 CAPLUS
CN Benzamide, 3-[(1Z)-6-amino-6-oxo-1-hexen-1-yl]-N-(2-hydroxy-1-methylethyl)- (CA INDEX NAME)

Double bond geometry as shown.



RN 863713-84-2 CAPLUS
CN Benzamide, N-(2-hydroxy-1-methylethyl)-3-[(1Z)-6-(methylamino)-6-oxo-1-hexen-1-yl]- (CA INDEX NAME)

Double bond geometry as shown.



OS.CITING REF COUNT: 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD (2 CITINGS)
REFERENCE COUNT: 47 THERE ARE 47 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2005:962195 CAPLUS
DOCUMENT NUMBER: 143:266679
TITLE: Preparation of benzamide derivatives as cannabinoid receptor modulators
INVENTOR(S): Okuyama, Masahiro; Selwood, David; Visintin, Cristina; Baker, David; Pryce, Gareth
PATENT ASSIGNEE(S): University College London, UK
SOURCE: PCT Int. Appl., 77 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005080316	A2	20050901	WO 2005-GB605	20050221
WO 2005080316	A3	20051103		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2005214146	A1	20050901	AU 2005-214146	20050221
CA 2556940	A1	20050901	CA 2005-2556940	20050221
EP 1745011	A2	20070124	EP 2005-708399	20050221
EP 1745011	B1	20090930		
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR				
CN 1956946	A	20070502	CN 2005-80012480	20050221
BR 2005007914	A	20070710	BR 2005-7914	20050221
JP 2007523150	T	20070816	JP 2006-553673	20050221
AT 444279	T	20091015	AT 2005-708399	20050221
MX 2006009433	A	20070321	MX 2006-9433	20060818
IN 2006DN04772	A	20070831	IN 2006-DN4772	20060821
NO 2006004227	A	20061116	NO 2006-4227	20060919
US 20080114062	A1	20080515	US 2007-590064	20071002

PRIORITY APPLN. INFO.: GB 2004-3864 A 20040220
WO 2005-GB605 W 20050221
OTHER SOURCE(S): CASREACT 143:266679; MARPAT 143:266679

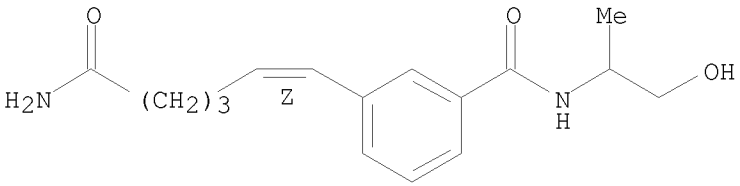
AB Title compds. I [wherein Z = OR1 or NR1R2; R1, R2 = H or hydrocarbyl group; X = (un)substituted alkylene, alkenylene or alkynylene; Y = OH, NO2, CN, etc.; A = (un)substituted aryl or heteroaryl; B = (CH2)n; n = 0-5, with some limitations, or pharmaceutically acceptable salts thereof] were prepared as cannabinoid receptor modulators. For instance, synthesis of II was achieved from 3-iodobenzoic acid via (1) EDCI-mediated condensation with alaninol to an amide (34%), (2) Pd-catalyzed Songashira coupling of the resultant iodide with 5-hexynoic acid to a phenylacetylene (99%), (3) amidation with Me2NH·HCl (96%), and (4) Lindlar hydrogenation. A number of biol. assays were performed, and some results were graphed and discussed. II was demonstrated to be an agonist toward the CB1 receptor with an IC50 of .apprx. 0.1 nM, vs. .apprx. 5 nM for reference (R)-Win 55212. Therefore, I and their pharmaceutical compns. are potentially useful for the treatment of muscular and gastrointestinal disorders, or for controlling spasticity or tremors.

IT 863713-82-0P
RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
(modulator; preparation of benzamide derivs. as cannabinoid receptor modulators)

RN 863713-82-0 CAPLUS

CN Benzamide, 3-[(1Z)-6-amino-6-oxo-1-hexen-1-yl]-N-(2-hydroxy-1-methylethyl)- (CA INDEX NAME)

Double bond geometry as shown.

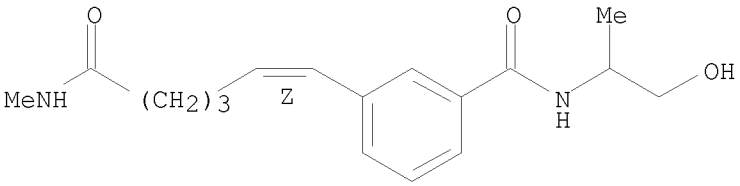


IT 863713-84-2P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(modulator; preparation of benzamide derivs. as cannabinoid receptor modulators)

RN 863713-84-2 CAPLUS

CN Benzamide, N-(2-hydroxy-1-methylethyl)-3-[(1Z)-6-(methylamino)-6-oxo-1-hexen-1-yl]- (CA INDEX NAME)

Double bond geometry as shown.



OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

```
=> file reg
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                         ENTRY    SESSION
FULL ESTIMATED COST                                      13.78     200.36

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)          SINCE FILE      TOTAL
                                                         ENTRY    SESSION
CA SUBSCRIBER PRICE                                      -1.64      -1.64

FILE 'REGISTRY' ENTERED AT 17:07:08 ON 08 NOV 2009
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STRUCTURE FILE UPDATES:    6 NOV 2009  HIGHEST RN 1191512-11-4
DICTIONARY FILE UPDATES:   6 NOV 2009  HIGHEST RN 1191512-11-4

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TSCA INFORMATION NOW CURRENT THROUGH June 26, 2009.

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http://www.cas.org/support/stngen/stndoc/properties.html

=> ....Testing the current file.... screen

ENTER SCREEN EXPRESSION OR (END):end


=>
Uploading C:\Program Files\Stnexp\Queries\10590064-2.str

L6      STRUCTURE UPLOADED

=> que L6

L7   QUE L6

=> d l7
L7 HAS NO ANSWERS
L6              STR
```
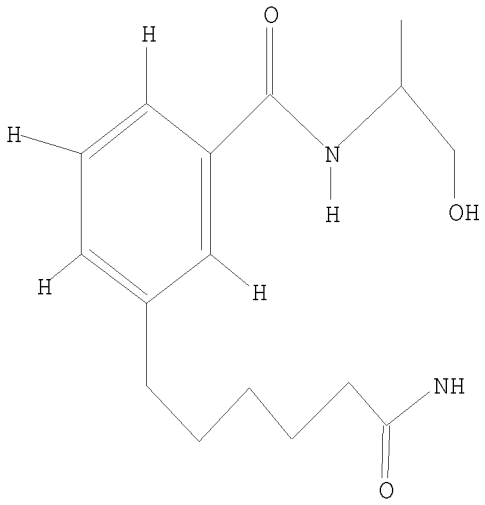



Structure attributes must be viewed using STN Express query preparation.
L7 QUE ABB=ON PLU=ON L6

=> s l7
SAMPLE SEARCH INITIATED 17:07:35 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 119 TO ITERATE

100.0% PROCESSED 119 ITERATIONS 0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 1726 TO 3034
PROJECTED ANSWERS: 0 TO 0

L8 0 SEA SSS SAM L6

=> s l7 sss full
FULL SEARCH INITIATED 17:07:46 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 2564 TO ITERATE

100.0% PROCESSED 2564 ITERATIONS 0 ANSWERS
SEARCH TIME: 00.00.01

L9 0 SEA SSS FUL L6

=> file reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	190.20	390.56

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-1.64

FILE 'REGISTRY' ENTERED AT 17:13:16 ON 08 NOV 2009

Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES: 6 NOV 2009 HIGHEST RN 1191512-11-4
DICTIONARY FILE UPDATES: 6 NOV 2009 HIGHEST RN 1191512-11-4

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH June 26, 2009.

  Please note that search-term pricing does apply when
  conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document. For information
on property searching in REGISTRY, refer to:

http://www.cas.org/support/stngen/stndoc/properties.html

=> ....Testing the current file.... screen

ENTER SCREEN EXPRESSION OR (END):end

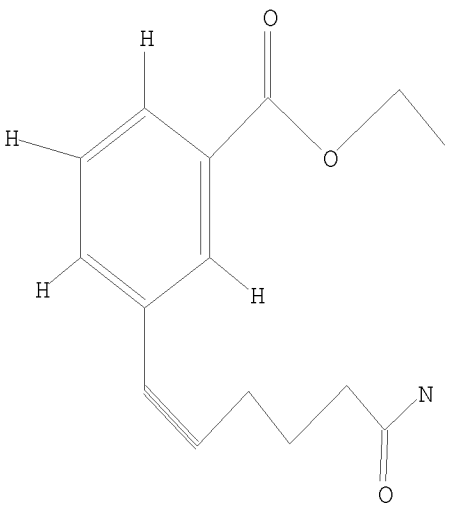
=>
Uploading C:\Program Files\Stnexp\Queries\10590064-3.str

L10   STRUCTURE UPLOADED

=> que L10

L11 QUE L10

=> d l11
L11 HAS NO ANSWERS
L10   STR



Structure attributes must be viewed using STN Express query preparation.

```
L11             QUE  ABB=ON  PLU=ON  L10


=> s l11
SAMPLE SEARCH INITIATED 17:13:44 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -       14 TO ITERATE

100.0% PROCESSED       14 ITERATIONS                                0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:           56 TO      504
PROJECTED ANSWERS:               0 TO        0

L12           0 SEA SSS SAM L10

=> s l11 sss full
FULL SEARCH INITIATED 17:13:52 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -      222 TO ITERATE

100.0% PROCESSED      222 ITERATIONS                                1 ANSWERS
SEARCH TIME: 00.00.01

L13           1 SEA SSS FUL L10

=> d l13 ibib ab hitstr
'IBIB' IS NOT A VALID FORMAT FOR FILE 'REGISTRY'
'AB' IS NOT A VALID FORMAT FOR FILE 'REGISTRY'
'HITSTR' IS NOT A VALID FORMAT FOR FILE 'REGISTRY'

The following are valid formats:

Substance information can be displayed by requesting individual
fields or predefined formats.  The predefined substance formats
are:  (RN = CAS Registry Number)

REG    - RN
SAM    - Index Name, MF, and structure - no RN
FIDE   - All substance data, except sequence data
IDE    - FIDE, but only 50 names
SQIDE  - IDE, plus sequence data
SQIDE3 - Same as SQIDE, but 3-letter amino acid codes are used
SQD    - Protein sequence data, includes RN
SQD3   - Same as SQD, but 3-letter amino acid codes are used
SQN    - Protein sequence name information, includes RN

EPROP  - Table of experimental properties
PPROP  - Table of predicted properties
PROP   - EPROP, ETAG, PPROP and SPEC

Any CA File format may be combined with any substance format to
obtain CA references citing the substance.  The substance formats
must be cited first.  The CA File predefined formats are:

ABS  -- Abstract
APPS -- Application and Priority Information
BIB  -- CA Accession Number, plus Bibliographic Data
CAN  -- CA Accession Number
CBIB -- CA Accession Number, plus Bibliographic Data (compressed)
IND  -- Index Data
```

IPC -- International Patent Classification
PATS -- PI, SO
STD -- BIB, IPC, and NCL

IABS -- ABS, indented, with text labels
IBIB -- BIB, indented, with text labels
ISTD -- STD format, indented

OBIB -------- AN, plus Bibliographic Data (original)
OIBIB ------- OBIB, indented with text labels

SBIB -------- BIB, no citations
SIBIB ------- IBIB, no citations

The ALL format gives FIDE BIB ABS IND RE, plus sequence data when
it is available.
The MAX format is the same as ALL.
The IALL format is the same as ALL with BIB ABS and IND indented,
with text labels.

For additional information, please consult the following help
messages:

HELP DFIELDS -- To see a complete list of individual display fields.
HELP FORMATS -- To see detailed descriptions of the predefined formats.
ENTER DISPLAY FORMAT (IDE):end

=> file caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	186.36	576.92

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-1.64

FILE 'CAPLUS' ENTERED AT 17:14:32 ON 08 NOV 2009
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FILE COVERS 1907 - 8 Nov 2009 VOL 151 ISS 20
FILE LAST UPDATED: 6 Nov 2009 (20091106/ED)
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Aug 2009
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Aug 2009

CAplus now includes complete International Patent Classification (IPC)
reclassification data for the third quarter of 2009.

CAS Information Use Policies apply and are available at:

http://www.cas.org/legal/infopolicy.html

This file contains CAS Registry Numbers for easy and accurate substance identification.

During November, try the new LSUS format of legal status information in the CA/CAplus family databases for free! Complete details on the number of free displays and other databases participating in this offer appear in NEWS 10.

=> s l13
L14 1 L13

=> d l14 ibib ab hitstr

L14 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2005:962195 CAPLUS
DOCUMENT NUMBER: 143:266679
TITLE: Preparation of benzamide derivatives as cannabinoid receptor modulators
INVENTOR(S): Okuyama, Masahiro; Selwood, David; Visintin, Cristina; Baker, David; Pryce, Gareth
PATENT ASSIGNEE(S): University College London, UK
SOURCE: PCT Int. Appl., 77 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005080316	A2	20050901	WO 2005-GB605	20050221
WO 2005080316	A3	20051103		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2005214146	A1	20050901	AU 2005-214146	20050221
CA 2556940	A1	20050901	CA 2005-2556940	20050221
EP 1745011	A2	20070124	EP 2005-708399	20050221
EP 1745011	B1	20090930		
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR				
CN 1956946	A	20070502	CN 2005-80012480	20050221
BR 2005007914	A	20070710	BR 2005-7914	20050221
JP 2007523150	T	20070816	JP 2006-553673	20050221
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MX 2006009433	A	20070321	MX 2006-9433	20060818
IN 2006DN04772	A	20070831	IN 2006-DN4772	20060821
NO 2006004227	A	20061116	NO 2006-4227	20060919
US 20080114062	A1	20080515	US 2007-590064	20071002
PRIORITY APPLN. INFO.:			GB 2004-3864 A	20040220

WO 2005-GB605 W 20050221

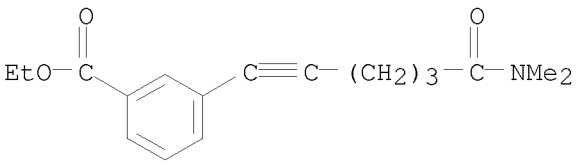
OTHER SOURCE(S): CASREACT 143:266679; MARPAT 143:266679

AB Title compds. I [wherein Z = OR1 or NR1R2; R1, R2 = H or hydrocarbyl group; X = (un)substituted alkylene, alkenylene or alkynylene; Y = OH, NO2, CN, etc.; A = (un)substituted aryl or heteroaryl; B = (CH2)n; n = 0-5, with some limitations, or pharmaceutically acceptable salts thereof] were prepared as cannabinoid receptor modulators. For instance, synthesis of II was achieved from 3-iodobenzoic acid via (1) EDCI-mediated condensation with alaninol to an amide (34%), (2) Pd-catalyzed Songashira coupling of the resultant iodide with 5-hexynoic acid to a phenylacetylene (99%), (3) amidation with Me2NH·HCl (96%), and (4) Lindlar hydrogenation. A number of biol. assays were performed, and some results were graphed and discussed. II was demonstrated to be an agonist toward the CB1 receptor with an IC50 of .apprx. 0.1 nM, vs. .apprx. 5 nM for reference (R)-Win 55212. Therefore, I and their pharmaceutical compns. are potentially useful for the treatment of muscular and gastrointestinal disorders, or for controlling spasticity or tremors.

IT 863713-71-7P
RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
(modulator; preparation of benzamide derivs. as cannabinoid receptor modulators)

RN 863713-71-7 CAPLUS

CN Benzoic acid, 3-[6-(dimethylamino)-6-oxo-1-hexyn-1-yl]-, ethyl ester (CA INDEX NAME)



OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT